

Serial No. 09/546,145
Attorney Docket No. 7016R-000015/COA

ground, wherein the associated deck is located between said side plates and in front of said roller and is mounted on said side plates such that the height of said deck relative to the ground is adjustable by changing the position of said deck relative to said side plates.

15. (New) A lawn mower as set forth in claim 14 wherein each deck assembly also includes a hydraulic motor which is mounted on said deck and which is drivingly connected to said spindle.

16. (New) A lawn mower as set forth in claim 15 wherein each deck assembly includes a set of cutting blades mounted on said spindle for rotation therewith, said set of blades including a lower, leading blade having a leading cutting edge and an upwardly angled trailing edge, and an upper, trailing blade having a leading cutting edge for cutting clippings deflected upwardly by said upwardly angled trailing edge of said leading blade, said trailing blade extending at a non-perpendicular angle relative to said leading blade so that clippings coming off said trailing edge of said leading blade are cut immediately by said trailing blade before said clippings start swirling around within said space.

17. (New) A lawn mower as set forth in claim 16 wherein at least two front rotary cutting deck assemblies are mounted on said frame in a side-by-side relationship defining a gap between adjacent front deck assemblies.

Serial No. 09/546,145
Attorney Docket No. 7016R-000015/COA

(New) A lawn mower as set forth in claim 25 wherein at least one rear deck assembly is aligned with said gap.

(New) A lawn mower as set forth in claim 21 wherein each of said front and rear deck assemblies is pivotable relative to said frame about three mutually perpendicular axes.

(New) A gang-type rotary lawn mower comprising:
a frame supported by front and rear wheels for movement over the ground;
a power source which is mounted on said frame and which drives at least two of said wheels;
an operator's seat mounted on said frame;
a steering system enabling the operator to steer said lawn mower;
at least two front rotary cutting deck assemblies mounted to said frame in front of said front wheels and in a side-by-side relationship, wherein each of said front cutting deck assemblies defines a front cutting path; and
at least one rear rotary cutting deck assembly being mounted on said frame behind said front deck assemblies, said rear rotary cutting deck assembly defining a rear cutting path extending laterally to overlap a portion of each of said front cutting paths, wherein each of said front and rear deck assemblies has at least one cutting blade mounted on a spindle for rotation therewith and at least one roller to support each of said deck assemblies for movement over the ground, said roller extending substantially across the entire width of said cutting path.

Serial No. 09/546,145
Attorney Docket No. 7016R-000015/COA

10
50. (New) A lawn mower as set forth in claim 28 wherein each deck assembly is connected to said frame by a respective lifting arm operable to lift the associated deck assembly relative to said frame, such that each of said deck assemblies is connected by its own lifting arm to said frame.

112
B
51. (New) A lawn mower as set forth in claim 29 wherein each of said front and rear deck assemblies includes a pair of laterally-spaced, generally vertically-extending side plates having forward ends, a first front wheel supporting one of said side plates for movement over the ground, and a second front wheel supporting the other of said side plates for movement over the ground, wherein said roller extends between said side plates and supports said side plates for movement over the ground, wherein the associated deck is located between said side plates and in front of said roller and is mounted on said side plates such that the height of said deck relative to the ground is adjustable by changing the position of said deck relative to said side plates.

Serial No. 09/546,145
Attorney Docket No. 7016R-000015/COA

REMARKS

Claim 1 remains pending in the present application. Claims 2-20 have been cancelled. New claims 21-31 have been added. The basis for the new claims may be found throughout the specification, drawings and claims as originally filed.

Applicant submits that the claims are patentable over the art of record. If the Examiner believes that personal communication will expedite prosecution of this application, he or she is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: 7/26/00
Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, MI 48303
(248) 641-1600

DPU/DGW/mg

By: David P. Utykanski
David P. Utykanski, Reg. No. 39,052
Donald G. Walker, Reg. No. 44,390
Attorneys for Applicants



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/546,145	04/10/00	BEDNAR	R 7016R 000016

PM92/1018

HARNESS DICKEY & PIERCE PLC
PO BOX 828
BLOOMFIELD HILLS MI 48303

EXAMINER
PEZZUTO, R

ART UNIT	PAPER NUMBER
3671	5

DATE MAILED: 10/18/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

<i>Office Action Summary</i>	Application No. 09/548,146	Applicant(s) Bednar	
	Examiner Robert Pazzuto	Group Art Unit 3871	[Barcode]
<p><input type="checkbox"/> Responsive to communication(s) filed on _____</p> <p><input type="checkbox"/> This action is FINAL.</p> <p><input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11; 453 O.G. 213.</p> <p>A shortened statutory period for response to this action is set to expire <u>3</u> month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).</p> <p>Disposition of Claims</p> <p><input checked="" type="checkbox"/> Claim(s) <u>21-31</u> _____ is/are pending in the application.</p> <p>Of the above, claim(s) _____ is/are withdrawn from consideration.</p> <p><input type="checkbox"/> Claim(s) _____ is/are allowed.</p> <p><input checked="" type="checkbox"/> Claim(s) <u>21-31</u> _____ is/are rejected.</p> <p><input type="checkbox"/> Claim(s) _____ is/are objected to.</p> <p><input type="checkbox"/> Claims _____ are subject to restriction or election requirement.</p> <p>Application Papers</p> <p><input type="checkbox"/> See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.</p> <p><input type="checkbox"/> The drawing(s) filed on _____ is/are objected to by the Examiner.</p> <p><input type="checkbox"/> The proposed drawing correction, filed on _____ is <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved.</p> <p><input type="checkbox"/> The specification is objected to by the Examiner.</p> <p><input type="checkbox"/> The oath or declaration is objected to by the Examiner.</p> <p>Priority under 35 U.S.C. § 119</p> <p><input type="checkbox"/> Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).</p> <p><input type="checkbox"/> All <input type="checkbox"/> Some* <input type="checkbox"/> None of the CERTIFIED copies of the priority documents have been received.</p> <p><input type="checkbox"/> received in Application No. (Series Code/Serial Number) _____</p> <p><input type="checkbox"/> received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</p> <p>*Certified copies not received: _____</p> <p><input type="checkbox"/> Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).</p> <p>Attachment(s)</p> <p><input type="checkbox"/> Notice of References Cited, PTO-892</p> <p><input checked="" type="checkbox"/> Information Disclosure Statement(s), PTO-1449, Paper No(s). <u>3</u></p> <p><input type="checkbox"/> Interview Summary, PTO-413</p> <p><input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review, PTO-948</p> <p><input type="checkbox"/> Notice of Informal Patent Application, PTO-152</p>			

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

Application/Control Number: 09/546,145

Page 2

Art Unit: 3671

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 21-31 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-19 of U.S. Patent No. 6,047,530. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the patent and the instant application lend themselves to a gang-type mower having a plurality of deck assemblies with a roller supporting and extending substantially the width of the decks.

Application/Control Number: 09/546,145

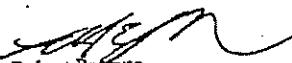
Page 3

Art Unit: 3671

Conclusion

3. Any inquiry concerning this communication should be directed to Robert Pezzuto at telephone number (703) 308-1012. The examiner can normally be reached Monday through Thursday from 7:00 am to 5:00 pm, Eastern Standard Time.

4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr Thomas B Will, can be reached on (703) 308-3870. The fax phone number for this Group is (703) 305-7687


Robert Pezzuto
Art Unit 3671
October 17, 2000

ART UNIT 3671
 EXAMINER To be assigned
 INVENTOR(S) Richard D. Bednar
 SERIAL NUMBER 09/548,145
 FILED April 10, 2000
 FOR GANG-TYPE ROTARY LAWN MOWER

3641/JP
Attorney Docket No. 7016R000015/COARESPONSE TRANSMITTAL AND
EXTENSION OF TIME REQUEST
(IF REQUIRED)C-300 MAIL ROOM
JAN 19 2001RECEIVED
U.S. PATENT & TRADEMARK OFFICETHE COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D. C. 20231

Sic:

FEE CALCULATION FOR ENCLOSED RESPONSE and EXTENSION REQUEST (If any)					
	Claims Remaining	Highest No. Previously Paid	Number Extra	Rate	Additional Fee
Total Claims	12	- 20	= 0	\$18.00	= 0
Independent Claims	3	- 3	= 0	\$78.00	= 0
Surcharge For Multiple Dependent Claim First Added				+\$260.00	= 0
<input type="checkbox"/> Applicant requests a _____ month extension of time for response to the outstanding Office Action. The large entity fee is					
TOTAL					
<input type="checkbox"/> SMALL ENTITY STATUS (If applicable, divide TOTAL by 2)					
<input type="checkbox"/> Verified Statement enclosed, if not previously filed.					
<input type="checkbox"/> Reduction for Extension Fee of _____ months already paid					
<input checked="" type="checkbox"/> OTHER: Supplemental Information Disclosure Statement and Status Inquiry 180.00					
TOTAL \$180.00					

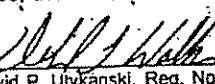
A check is enclosed to cover the fees as calculated above.

The fees calculated above are to be charged to Deposit Account No. 08-0750.

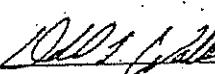
If for some reason applicant has not requested a sufficient extension of time and/or has not paid a sufficient fee for this response and/or for the extension of time necessary to prevent the abandonment of this application, please consider this as a Request for an Extension for the required time period and/or an authorization to charge our Deposit Account No. 08-0750 for any fee which may be due. A duplicate copy of this sheet is enclosed.

HARNESS, DICKEY & PIERCE, P.L.C.

P. O. Box 828
 Bloomfield Hills, Michigan 48303
 (248) 641-1600

By: 
 David P. Ulykanski, Reg. No. 39,052
 Donald G. Walker, Reg. No. 44,390

I hereby certify that this letter, the response attached hereto and, if enclosed, the small entity verification are being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231, on January 9, 2001.

By: 

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit:	3671	 <small>U.S. POSTAGE PAID</small>	<small>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT AND STATUS INQUIRY</small>
Examiner:	To be assigned		
Serial No.:	09/546,145		
Inventor(s):	Richard D. Bednar		
Filed:	April 10, 2000		
For:	GANG-TYPE ROTARY LAWN MOWER		
Attorney Docket:	7016R-000015/COA		

RECEIVED

JAN 19 2001

TO 3600 MAIL ROOM

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231 on January 9, 2001.

*By**Jeff J. Walker***INFORMATION DISCLOSURE STATEMENT**

Sir:

In response to the Office Action dated October 18, 2000, Applicant respectfully requests an update as to the status of pending Claim 1. In the Office Action, the Examiner noted that Claims 21-31 are pending in the application but made no mention to Claim 1. Applicant would not be adverse to a withdrawal of the aforementioned Office Action if a subsequent action including substantive examination of Claims 1, 21-31 and the additional references disclosed herein were to follow.

Pursuant to 37 C.F.R. §§1.56, 1.97, and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications, and other information submitted for consideration by the Office (except U.S. patent applications) are listed on HDP-1449 (based on Form PTO-1449), attached hereto.

1/17/2001 WKDRWMA 00000157 00346145

4 FCB:126

100.00 DP

JA - 0260

II. COPIES

a. Submitted herewith is a legible copy of (i) each U.S. patent application publication, U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

b. Any patents, publications or other information which are listed on PTO-1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. §120:

<u>U.S. Serial Number</u>	<u>U.S. Filing Date</u>
08/794,141 - Now issued Patent No. 6,047,530	February 3, 1997

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

a. Except as may be indicated below in (b), all of the patents, publications or other information are in the English language (concise explanation not required).

b. A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. §1.98(a)(3)):

c. The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

a. The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. §122.

<u>Serial No.</u>	<u>Filing Date</u>	<u>Art Unit</u>
09/643,697	August 22, 2000	3671

V. THIS IDS IS BEING FILED UNDER

a. 37 C.F.R. §1.97(b): (check only one box)

1. within three months of the filing date of a national application other than a continued prosecution application (37 C.F.R. §1.97(b)(1)). No fee or certification is required.

2. _____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. §1.97(b)(2)). No fee or certification is required.

3. _____ before the mailing of a first Office action on the merits (37 C.F.R. §1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. §1.97(c) and see the certification under 37 C.F.R. §1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.P.R. §1.17(p).

4. _____ before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. §1.114. No fee or certification is required.

b. 37 C.F.R. § 1.97(c): (check only one box)

* before the mailing date of either any Final Office Action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution.

1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. §1.17(p).

2. _____ See the certification below. No fee is required.

c. _____ 37 C.F.R. § 1.97(d):

* after the mailing date of either a Final Office Action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311, yet on or before payment of the issue fee.

1. _____ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. §1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

a. _____ each item of information contained in this IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. §1.97(e)(1)); OR

b. _____ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. §1.97(e)(2)).

Serial No. 09/546,145

Atty. Docket No. 7016R-000015/COA

Page 3

JA - 0262

c. Some of the items of information were first cited in any communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this IDS.

VII. PAYMENT OF FEES (check only one box)

- a. A check in the amount of \$180.00 is enclosed for the above-identified fee.
b. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art.

If the Examiner has any questions concerning this IDS, the Examiner is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. §1.16 or §1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: January 9, 2001
HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600
DPU/DGW/vle

By: David P. Utykanski
David P. Utykanski, Reg. No. 39,052
Donald G. Walker
Donald G. Walker, Reg. No. 44,390

Enclosures: PTO-1449
 PTO-892
 References
 Foreign Search Report
 Fee
 Other:

Serial No. 09/546,145

Atty. Docket No. 7016R-000015/COA

Page 4

JA - 0263

FORM HDP-1449 (Based on Form 10-1449)		ATTORNEY DOCKET NO.	SERIAL NO.
PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		7016R-00001S/COA	09/546,145
Sheet 1 of 1 <i>Jan 16 2001</i> RECEIVED TRADEMARK OFFICE		APPLICANT Richard D. Bednar	
		FILING DATE April 10, 2000	GROUP 3671

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.						
2.						
3.						
4.						
5.						

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	Translation No
1.							
2.							

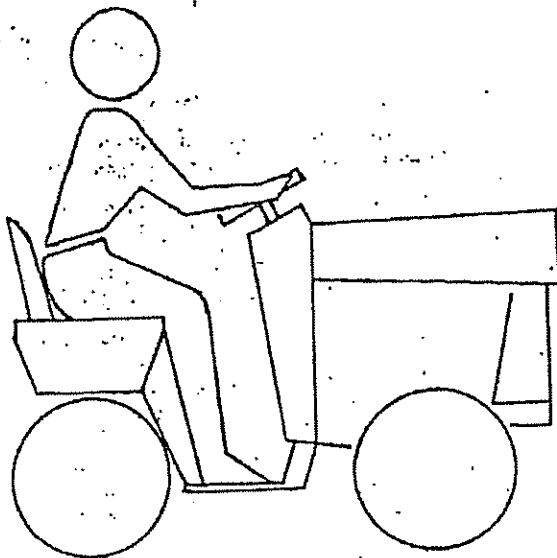
Ref. Desig.	Examiner's Initials	List of Prior Art Documents Considered (Indicate Date Considered, Page(s), etc.)			
1.	<i>PL</i>	"80-81 Owners Manual" published by Steiner in 1981 depicting rear roller 60 extending substantially across the width of multi-spindle cutting deck.			
2.		'Uniquely engineered for unmatched versatility' (advertising brochure) published by Steiner in 1997, p. 14.			
3.		"Jacobson Textron HR-5111 - 4WD Hydraulic Rotary Mower" (advertising brochure) published by Jacobson Div. Of Textron, Inc. in 1994.			
4.		"Groundsmaster® 580-D Mowers" (advertising brochure) published by Toro. (date unknown)			
5.		"The Articulator", Model 425D (advertising brochure) published by LasTec, Inc. (date unknown).			
6.		"The Articulator", Model 325ER (advertising brochure) published by LasTec, Inc. (date unknown).			
7.		"The Articulator"; Model 325E (advertising brochure) published by LasTec, Inc. (date unknown).			
8.	<i>PL</i>				

Examiner:

*Peronto*Date Considered: *2/27/01*

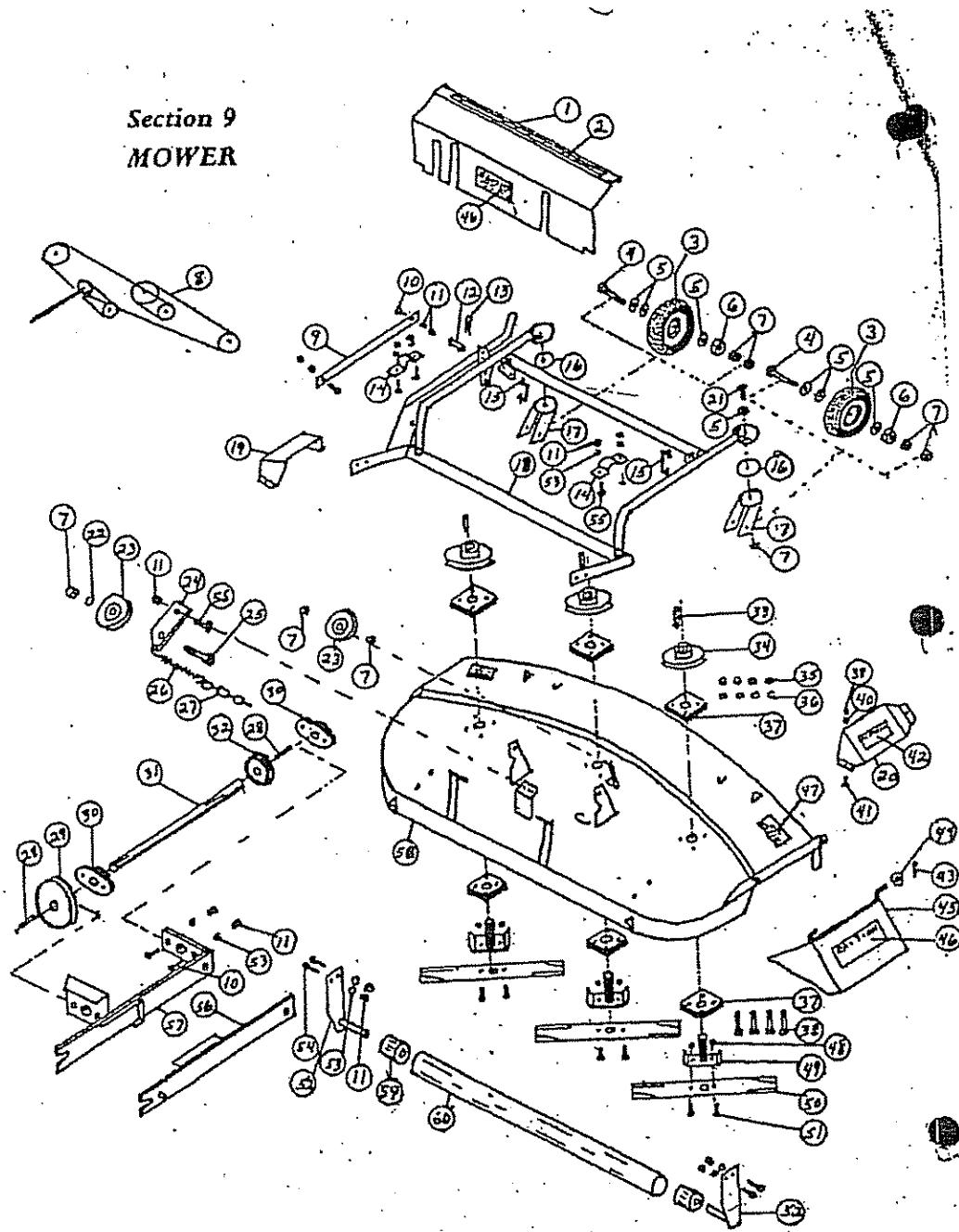
EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

STEINER

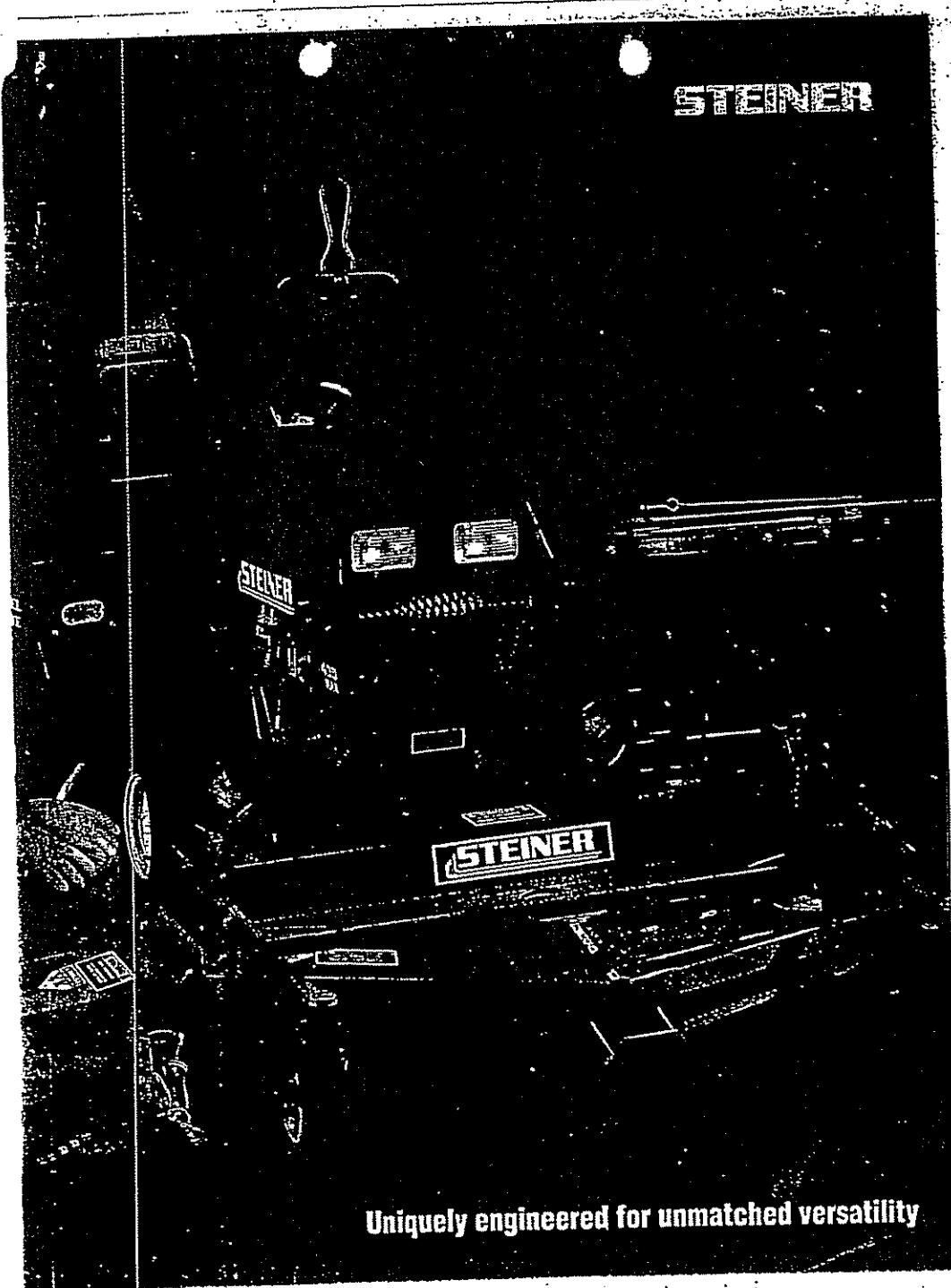


**80-81
OWNERS MANUAL**

**Section 9
MOWER**



REF.	PART NUMBER	DESCRIPTION	QTY
1	AOS 6032 M	Shield, upper 48"	1
	AOS 6033 M	Shield, upper 60"	1
2	AOS 601	Decal, Steiner	1
3	AOP 5008 M	Wheel Caster	2
4		Bolt, 1/2 x 4-1/2	2
5		Washer, flat	8
6		Spacer, 5/8 nut	2
7		Nut, 1/2 "	9
8	AOP 8004 M	Belt, drive 48" (A128)	1
	AOP 8005 M	Belt, drive 60" (A144)	1
9	AOS 4057 M	Strap, lift link 48"	1
	AOS 4058 M	Strap, lift link 60"	1
10		Bolt, 3/8 x 1-1/2	6
11		Nut 3/8	17
12		Pin clevis 5/16 x 1-1/2	1
13		Clip pin 3/32	1
14	AOS 6034 M	Clamp, frame	2
15	AOS 4059 M	Lift, lift	2
16	AOS 5009 M	Washer, tonlon	2
17	AOS 5010 M	Caster	2
18	AOS 6035 M	Frame, upper carrier 48"	1
	AOS 6036 M	Frame, upper carrier 60"	1
19	AOS 6037 M	Shield, left 48"	1
	AOS 6039 M	Shield, left 60"	1
20	AOS 6038 M	Shield, right 48"	1
	AOS 6040 M	Shield, right, 60"	1
21		Bolt - 1/2 x 1-1/2	2
22		Washer, lock 3/2"	2
23	AOP 8006 M	Pulley, idler 4-1/2" x 1/2" bore	1
24	AOS 6041 M	Bracket, idler	1
25		Bolt, 1/2 x 2	1
26		Spring	1
27		Chain, 3/16 4-links	1
28		Key, straight - 3/16 x 1	2
29	AOP 8007 M	Pulley, 5" 3/4" bore	1
30		Bearing, 3/4" 2 bolt flange	2
31	AOS 6008 M	Shaft, drive	1
32	AOP 8009 M	Pulley 4" 3/4" bore	1
33		Key straight, 3/16 x 1	3
34	AOP 8010 M	Pulley, 5" 1" bore - 48"	3
	AOP 8011 M	Pulley, 6" 1" bore - 60"	3
35		Nut, 7/16 SAE	12
36		Washer, lock - 7/16	12
37		Bushing, 4 bolt flange - 1" bore	6
38		Bolt - 7/16 x 2 SAE	12
39		Nut - 1/4"	4
40		Washer, lock - 1/4"	4
41		Bolt 1/4 x 3/4	4
42	AOS 004	Decal, warning	1
43		Cotter pin - 1/8" x 1"	5
44		Washer, flat 3/8	1
45	AOS 6042 M	Chute discharge	2
46	AOS 005	Decal, caution	2
47	AOS 006	Decal, danger	2
48		Nut, 5/16	6
49	AOS 6012 M	Spindle, mower	3
50	AOP 8013 M	Blade, mower - 48"	3
	AOP 8014 M	Blade, mower - 60"	3
51	AOP 8015 M	Bolt special	6
52	AOS 6043 M	Support roller left - 48"	1
	AOS 6045 M	Support roller left - 60"	1
	AOS 6044 M	Support roller right - 48"	1
	AOS 6046 M	Support roller right - 60"	1
53		Washer, lock 3/8	12
54		Bolt - 3/8 x 1-1/4"	4
55		Bolt - 3/8 x 1"	5
56	AOS 6048 M	Arm, attaching right	1
57	AOS 6047 M	Arm, attaching, left	1
58	AOS 6049 M	Deck - 48"	1
	AOS 6050 M	Deck - 60"	1
59	AOS 6016 M	Bearing, wood, roller	2
60	AOS 8017 M	Roller - 48"	1
	AOS 8018 M	Roller - 60"	1



Uniquely engineered for unmatched versatility

JA -0268



**With constant
4-wheel drive and an
articulated frame,
nothing else works**

like a Steiner.

Oné turn behind the wheel tells you the Steiner is unique among the world's turf tractors. Right away, you're struck by the commanding, yet comfortable seating position, and the fact that every control is ergonomically placed for ease of use. Then, as you start out, you immediately feel the difference our articulated frame makes. With its frame hinged in the middle, the Steiner doesn't turn like other turf tractors. In fact, the Steiner changes direction with such agility, you'd think it's anticipating your next move.

Table of Contents

Model 525	4
Model 430 Max	5
Model 410	8
Model 220	10
Model 202	12
Accessories	14
Attachments	14-17
Specifications	18



②

S t e i n



Our 100,000 sq. ft. Steiner facility

You drive the Steiner effortlessly up and down hills, then toward a muddy area alongside a creek. You're impressed by the powerful engine and smooth forward motion. With constant 4-wheel drive and hydrostatic drive, the Steiner moves steadily across all kinds of terrain, without clutching, without jerking and without braking.



Preparing engineering drawings on CAD system

At the end of your test ride, you realize you've been at the controls of a machine engineered and built without compromise to be the finest turf tractor you can buy.

Because we give it unique capabilities, you can give it more to do.

We developed the Steiner turf tractor to be a brilliant performer on yards, grounds and estates. But mowing and routine grounds maintenance are only the beginning of the Steiner's many time- and effort-saving skills.

In less than five minutes, the unique Quick-Hitch™ attachments enable your Steiner to become nearly any kind of maintenance machine you can imagine. You can sweep, blow, grade, scoop, till, cut, aerate and more. And you'll find all Steiner attachments are exceptionally easy to use, ready to work hard – and built to last.



Computerized turret punch/plasma machine

All tractors are built to work hard. Steiners are built to work harder, longer.

More than 20 years ago, the first Steiner was painstakingly hand-built by skilled craftsmen in the Steiner family machine shop. Today, the machine shop has given way to a state-of-the-art manufacturing facility in Dalton, Ohio, where robotics bring computerized precision to everything our craftsmen do.



Automated press brake forms metal



Painting in the multi-stage paint system

Assembly line



And Steiners traditionally hold their value extremely well, which will benefit you at trade-in or resale. All Steiner attachments also carry a one-year warranty except the trencher and chipper/shredder which have a 90 day warranty.

2 r T u r f 3

size and power, the ultimate Steiner turf tractor.

model 525

ACCESSORIES

- ROPS APPROVED ROLL BAR
- THREE POINT HITCH
- WEIGHT BAR (FRONT OR REAR)
- CAB (HEATED, ROPS APPROVED)
- SUSPENSION SEAT

Everything we've learned about building turf tractors has gone into the design and manufacture of our largest model, the Steiner 525. Its 23.5-hp Kubota water-cooled engine and smooth, foot-pedal operated 4-wheel drive give it the strength to power its way through the heaviest of heavy duty tasks. But this machine also offers high levels of handling and driver comfort, as its turning capabilities and softly cushioned ride allow the Steiner 525 to tread lightly on your grounds.



Steiner's Quick-Hitch™ System allows you to easily switch to any attachment in one to five minutes.



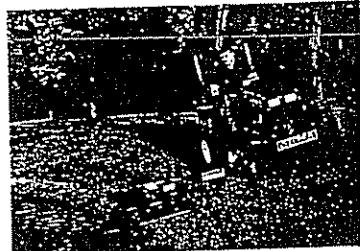
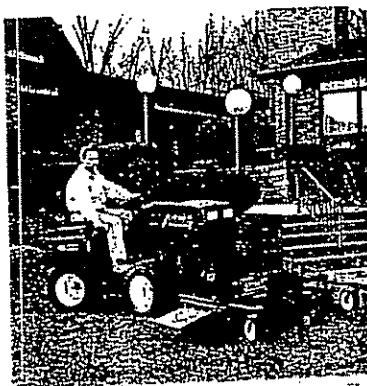
Drive forward until the hitch-arms engage the attachment arm pins.

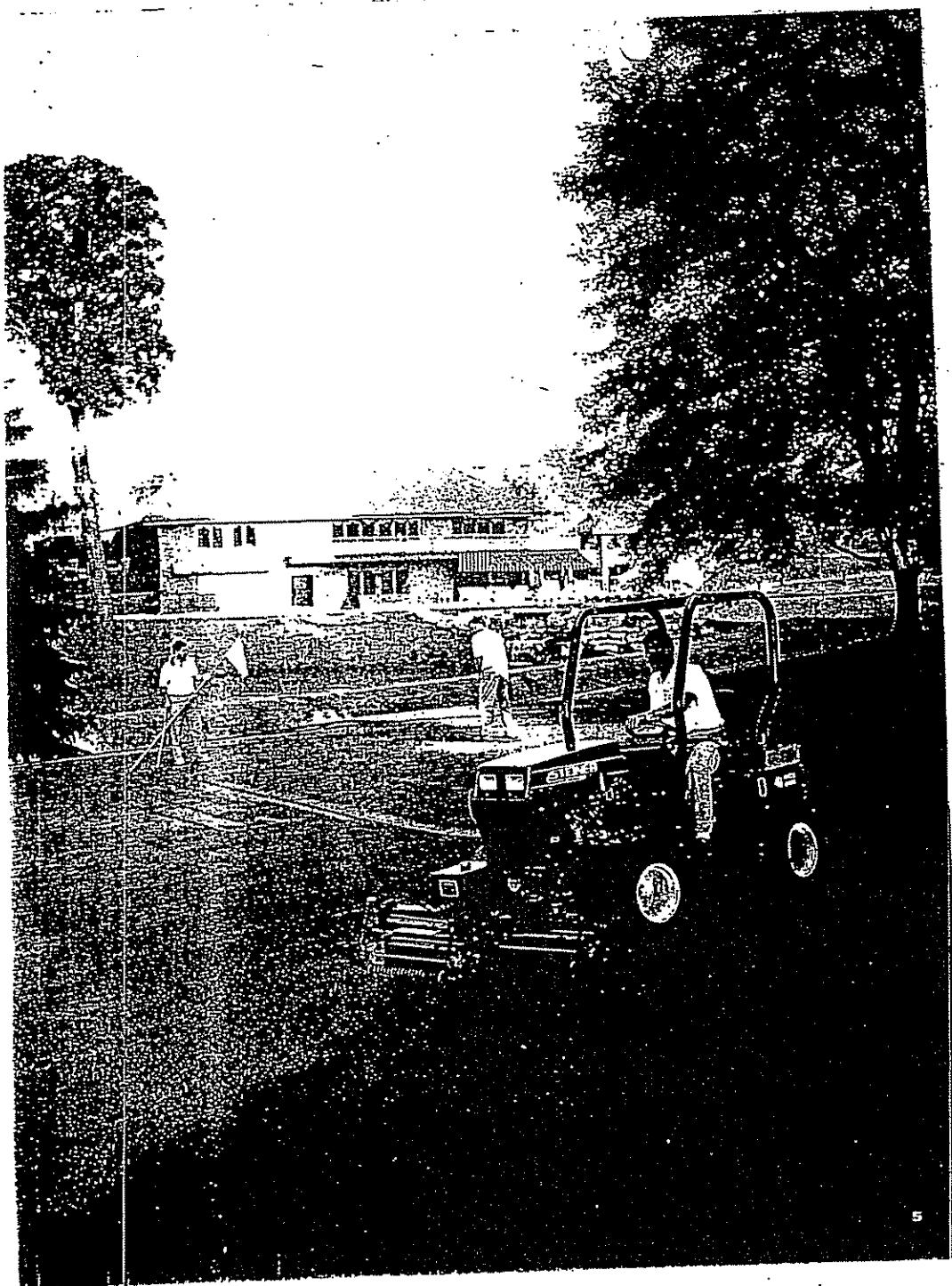


Release the spring-loaded lever with one hand.



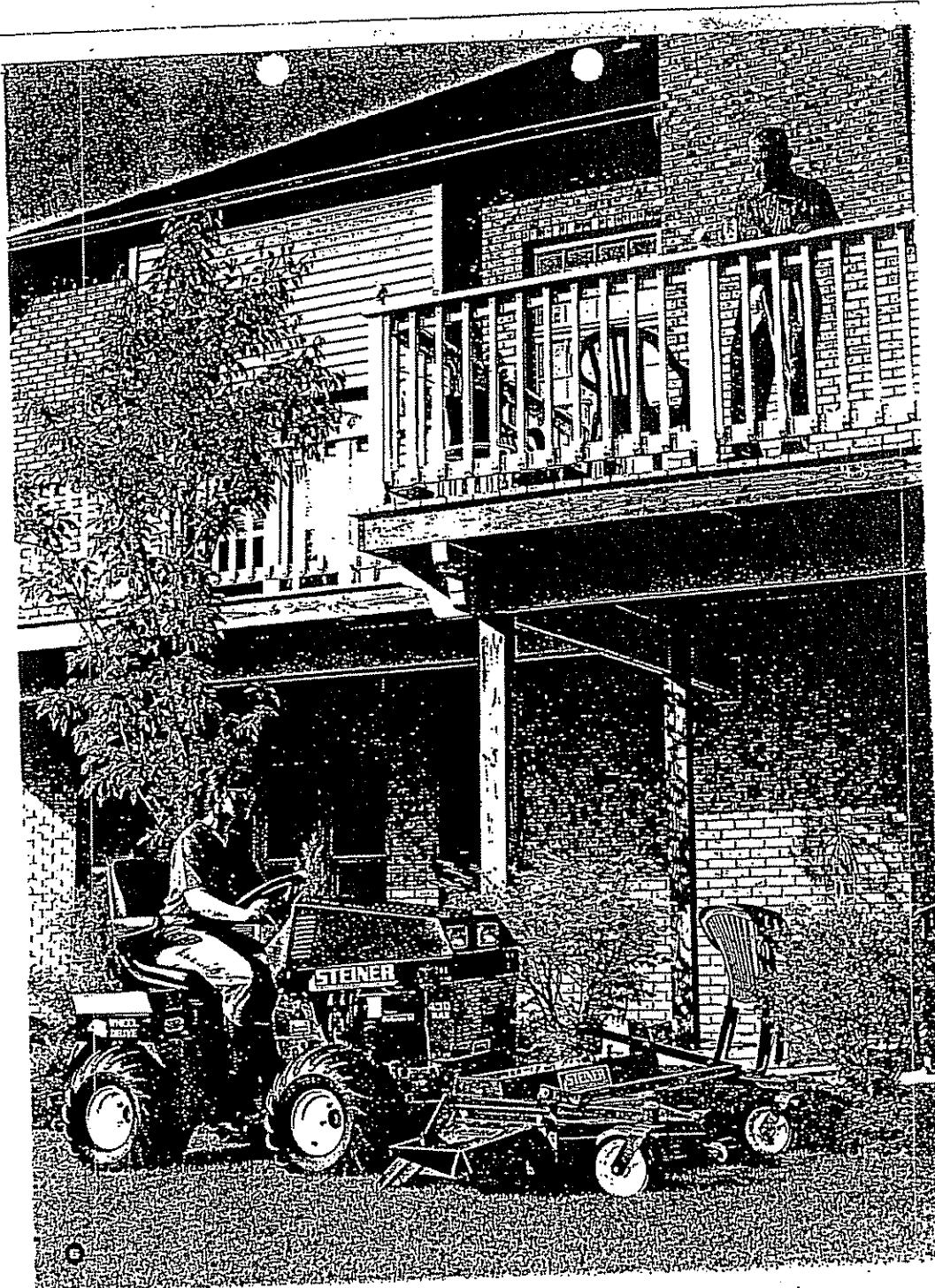
Install the belt drive and go to work.





5

JA - 0272



JA - 0273

Power, versatility and comfort to the max.

m o d e l 4 3 0

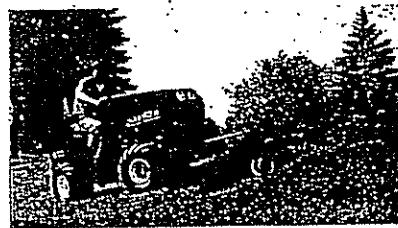
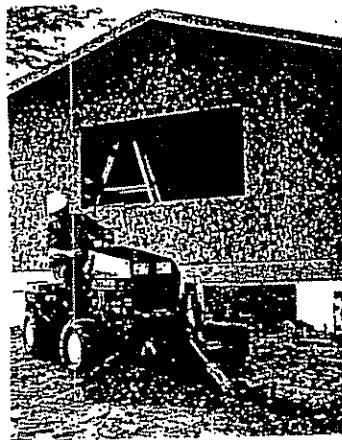
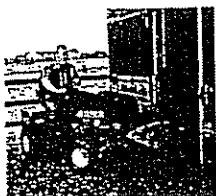
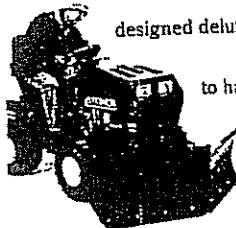
The Steiner 430 Max takes a good idea and makes it better. We begin with a strong foundation, including our constant 4-wheel drive, articulated frame, hydrostatic transmission and power steering. Then, we provide your choice of four engines capable of 20-25 hp. To keep you comfortably in command, you sit in an ergonomically



ACCESSORIES

ROPS APPROVED ROLL BAR
THREE POINT HITCH
WEIGHT BAR (FRONT OR REAR)
CAB
SUSPENSION SEAT
TURF TIRES
DUAL WHEELS

designed deluxe seat and use a new hydrostat control that falls readily to hand. And Quick-Hitch™ attachments and accessories are available to provide a wide range of capabilities.

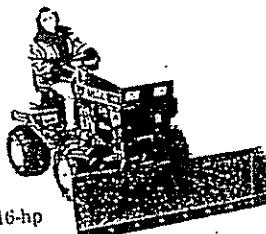


Simply designed to work harder for you.

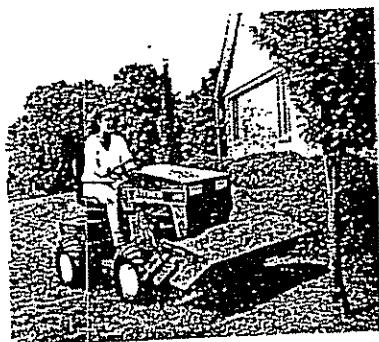
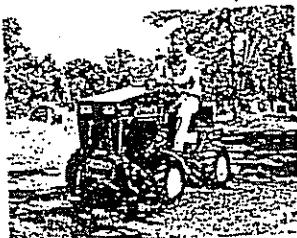
m o d e l 4 1 0

STANDARD EQUIPMENT
WEIGHT BAR
AUXILIARY HYDRAULIC CONTROL
BAR TIRE OPTION
TURF TIRES STANDARD

The Steiner 410 takes many of the capabilities of our more powerful turf tractors and makes them available in a more affordable model. Powered by a 16-hp Onan Performer engine, the Steiner 410 offers the same advanced engineering that makes Steiner unique, including constant 4-wheel drive, an articulated frame and power steering. With your choice of Quick-Hitch™ attachments, the Steiner 410 shares one



other characteristic of our larger models — it's highly accomplished at giving you more than you expect from a turf tractor.



①

JA - 0275